

Message Text

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ORIGIN EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 USIA-06
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C O N F I D E N T I A L STATE 108952

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM, GW, UR

SUBJECT: GERMAN MACHINERY, EQUIPMENT AND TECHNOLOGY FOR
MANUFACTURE OF IC'S TO USSR -- IL 1355/1564

REF: COCOM DOC (76) 1647

1. OBJECT. ASSOCIATED US CASES FOR THE REEXPORT OF THE
PRODUCTION AND COMPUTERIZED PRODUCTION TESTING EQUIPMENT
OF US ORIGIN HAVE BEEN DENIED BECAUSE THE EXPORT OF THIS UP-
TO-DATE, HIGH PRODUCTION VOLUME EQUIPMENT, ESPECIALLY AS
PART OF A MUCH LARGER AND COMPLETE MANUFACTURING FACILITY
FOR INTEGRATED CIRCUITS, WOULD SIGNIFICANTLY UPGRADE SOVIET
IC MANUFACTURING CAPABILITY FOR BOTH MILITARY AND CIVILIAN
DEVICES. WITH REGARD TO THE TECHNOLOGY, US TECHNICIANS CON-
SIDER BIPOLAR IC TECHNOLOGY TO BE A VERY SOPHISTICATED AND
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WELL-ADVANCED TECHNOLOGY IN ELECTRONICS. THE PRODUCTION OF
BIPOLAR IC'S, SUCH AS TBA 800, 810A, 120S, 940 AND
950, ARE GREATLY DEPENDENT ON KNOWLEDGE OF ELECTRICAL
PROPERTIES. THE HIGH OPERATING SPEED AND HIGH CURRENT DRIVE
CAPABILITY ARE TEN TIMES GREATER THAN THAT OF CMOS CIRCUITS.
(THE MOST SIGNIFICANT DISADVANTAGE OF BIPOLAR CIRCUITS IS
THEIR LARGE SIZE.) THE TRANSFER OF THE BIPOLAR IC TECHNOLO-

GY PROCESSES COULD BE DIVERTED TO THE MANUFACTURE OF BIPOLAR
MEMORY DEVICES (ROM, RAM) AND MOS/LSI CIRCUITS IN THE FUTURE.

2. FYI: ITT'S APPLICATION FOR DIRECT EXPORT FROM US OF 42
IL 1529 COUNTER TIMERS TO SAME ADDRESS FOR USE IN PRODUC-
TION OF COLOR TV AND OTHER CONSUMER ENTERTAINMENT PRODUCTS
WAS APPROVED. SEE COCOM DOC (76) 2030. CHRISTOPHER

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Message Attributes

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Capture Date: 01-Jan-1994 12:00:00 am
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Control Number: n/a
Copy: SINGLE
Sent Date: 13-May-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 22 May 2009
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